

**ENCLOSURE 2**

**TRANSCRIPTS: ARKANSAS NUCLEAR ONE, UNIT 2  
LICENSE RENEWAL PUBLIC MEETING (AFTERNOON)**

**Official Transcript of Proceedings**

**NUCLEAR REGULATORY COMMISSION**

**Title:** Arkansas Nuclear One, Unit 2  
License Renewal Public Meeting

**Docket Number:** 50-368

**Location:** Russellville, Arkansas

**Date:** Tuesday, February 3, 2004

**Work Order No.:** NRC-1279

**Pages 1-27**

**NEAL R. GROSS AND CO., INC.**  
**Court Reporters and Transcribers**  
**1323 Rhode Island Avenue, N.W.**  
**Washington, D.C. 20005**  
**(202) 234-4433**

1 UNITED STATES OF AMERICA  
2 U.S. NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 PUBLIC MEETING TO DISCUSS ENVIRONMENTAL SCOPING  
5 PROCESS FOR ARKANSAS NUCLEAR ONE, UNIT 2  
6 LICENSE RENEWAL APPLICATION

7 + + + + +

8 TUESDAY,

9 FEBRUARY 3, 2004

10 + + + + +

11 RUSSELLVILLE, ARKANSAS

12 + + + + +

13 The Public Meeting convened in the Holiday  
14 Inn at 2407 North Arkansas Avenue, Russellville,  
15 Arkansas 72801 at 1:30 p.m.

16  
17 Present on behalf of the Nuclear Regulatory  
18 Commission:

19 CHIP CAMERON

20 JOHN TAPPERT

21 THOMAS KENYON

22 STACEY IMBODEN  
23  
24  
25

## I N D E X

Welcome and Introductions, Chip Cameron . . . . .	3
Welcome and Purpose of the Meeting,	
John Tappert . . . . .	7
Overview of License Renewal Process,	
Thomas Kenyon . . . . .	9
Overview of Environmental Review Process,	
Stacey Imboden . . . . .	16
Questions from the Audience . . . . .	23
Closing Comments, John Tappert . . . . .	26
Adjourn . . . . .	27

P-R-O-C-E-E-D-I-N-G-S

1:30 p.m.

MR. CAMERON: Can everybody hear me?

Okay, it is on.

Welcome to the NRC's Public Meeting today.

My name is Chip Cameron and I'm the Special Counsel for Public Liaison at the Nuclear Regulatory Commission and it's my pleasure to serve as the facilitator for the meeting today. In that role, I'll try to help all of you to have a productive meeting.

I can say personally that it's always nice to be back in Arkansas, so I'm glad to be here and I thank you all for coming out to the meeting this afternoon.

Our subject is going to be the NRC environmental review that is part of the Nuclear Regulatory Commission's evaluation of a request that we received from Entergy to renew the operating license for Arkansas Nuclear Unit 2 and I just wanted to say a couple of words about format for the meeting and ground rules and introduce the NRC speakers before we got started.

The format for the meeting, we're going to basically divide into two parts and these two parts really match our objectives today. The first part is

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

(202) 234-4433

(202) 234-4433

1 to provide you with some clear information about the  
2 NRC's license renewal process and specifically about  
3 the environmental review part of that process and to  
4 answer any questions that you might have about that.

5 The second part of the meeting is to give  
6 us an opportunity to listen to you about any comments,  
7 recommendations, advice that the NRC should use in  
8 terms of deciding what types of issues, what types of  
9 data they should look at in preparing the draft  
10 environmental impact statement on the license renewal  
11 application.

12 In terms of things that we hear today,  
13 they're going to have the same weight as any written  
14 comments that we receive and the NRC staff will be  
15 telling you in a few minutes about the process for  
16 submitting written comments. But we do have Ms. Peggy  
17 Brown, right here, who is going to transcribe the  
18 meeting so that we will have a record of what is said  
19 today.

20 The ground rules are real easy. If you  
21 have a question, just give me a signal and I'll bring  
22 you this cordless mic and if you could give us your  
23 name and affiliation, if appropriate, we'll try to  
24 answer your question to the best that we can.

25 When we get to the formal comment part of

1 the meeting, in order that we can make sure that we  
2 hear from everybody, I would just ask you to limit  
3 formal comments to a five to seven minute guideline.  
4 I don't think we're going to have any crunch today in  
5 terms of time, so we can be flexible with that.

6 And let me just introduce the NRC staff  
7 who are going to be talking to you today. We're going  
8 to go in a minute to Mr. John Tappert who is right  
9 here. And John is the Chief of the Environmental  
10 Section in our Office of Nuclear Reactor Regulation at  
11 the NRC and John and his staff do the environmental  
12 reviews, they supervise the environmental reviews for  
13 any reactor activity that needs environmental impacts  
14 looked at.

15 John has been with the NRC for about 13  
16 years. He was an NRC resident inspector before that.  
17 These are the people, and we have them at ANO, our  
18 staff that are there to make sure that NRC regulations  
19 are complied with. John was in the Nuclear Navy  
20 before that and his Bachelor's degree is in Aeronautic  
21 and Ocean Engineering from Virginia Tech. And he has  
22 a Master's in Environmental Engineering from Johns  
23 Hopkins University.

24 After John's welcome and a little bit of  
25 background, we're going to go to Mr. Tom Kenyon from

1 the NRC who's here, one of the people who work for  
2 John. He's a project manager on the Arkansas Nuclear  
3 License Renewal at this point. He's been with the  
4 Agency forever, as we say, about 23 years now. He's  
5 been involved over that time in a lot of different  
6 activities, including being a project manager for  
7 operating reactors and also involved in the advanced  
8 design certification activities that we do. And Tom  
9 has a Bachelor's in Nuclear Engineering from the  
10 University of Michigan. And he's going to give you  
11 sort of an overview of the entire license renewal  
12 process.

13 And then we're going to go to the NRC  
14 staff member who is specifically responsible for the  
15 oversight of the preparation of the environmental  
16 review on this license renewal application and that's  
17 Ms. Stacey Imboden, who's right here. Stacey is one  
18 of our newer staff members. She's been with us for  
19 two and a half years and she has a Bachelor's in  
20 meteorology from Penn State University and a Master's  
21 in Environmental Engineering from Clemson University.

22 So we'll go -- we're going to have John  
23 talk and then Tom and I think we're going to be fairly  
24 brief, so maybe we can hold the questions until all  
25 three of the speakers are done and then we'll go on to

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701



1 your questions.

2 John?

3 MR. TAPPERT: Thank you, Chip, and good  
4 afternoon, everyone.

5 My name is John Tappert and on behalf of  
6 the Nuclear Regulatory Commission, I'd like to thank  
7 you for coming out here today and participating in  
8 this process.

9 Now we're not going to attempt to compete  
10 with the Super Bowl half time show, but I hope that  
11 you will find our presentations to be informative and  
12 helpful and we look forward to receiving your  
13 comments, both today and in the future.

14 I'd like to start off today by briefly  
15 going over the agenda and purposes of today's meeting.

16 Next slide.

17 First of all, we'd like to give you a  
18 brief overview of the entire license renewal process.  
19 This includes both the safety review as well as an  
20 environmental review which will be the main focus  
21 today. Then we'll give you additional information  
22 about how we are going to perform our environmental  
23 review which will assess the impacts associated with  
24 extending the operating license for Arkansas Nuclear  
25 One Unit 2 for an additional 20 years.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1           Then we'll give you some information about  
2           the balance of our schedule and how you can submit  
3           comments in the future. And then we get to the real  
4           heart of today's meeting which is to receive any  
5           comments that you may have today.

6           First, let me provide some background for  
7           the license renewal process itself.

8           Next slide.

9           The Atomic Energy Act gives the NRC the  
10          authority to issue operating licenses to commercial  
11          nuclear power plants for a period of 40 years. For  
12          Unit 2, that operating license will expire in 2018.  
13          Our regulations also make provisions for extending  
14          those operating licenses for an additional 20 years as  
15          part of our license renewal program. And Entergy has  
16          requested license renewal for Unit 2.

17          Now you might notice I'm only talking  
18          about Unit 2 right now and if you're familiar with the  
19          site, you realize there's two units, Unit 1 and Unit  
20          2. And the reason we're not talking about Unit 1 today  
21          is because Entergy has previously requested and  
22          received a license extension for Unit 1 on that  
23          operating license until 2034.

24          So as we review Entergy's request for Unit  
25          2 we are performing reviews and one of those reviews

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 is the environmental review. And right now we're in  
2 what we call the scoping portion of that review where  
3 we seek to identify those issues which will require  
4 the greatest focus in our environmental impact  
5 statement. And this public meeting here today is an  
6 important part of that scoping process.

7 Now after we get finished with the scoping  
8 process and do our initial assessment, we will publish  
9 a draft environmental impact statement and we will  
10 come here again in the fall to have another public  
11 meeting to receive your comments on that draft.

12 And again, just to refocus what the major  
13 purpose today is is to receive any comments that you  
14 may have today on the scoping process.

15 And with that, I'd like to ask Tom to give  
16 us some additional information on the safety review.

17 MR. KENYON: Thank you, John. As John  
18 mentioned my name is Tom Kenyon and I'm the  
19 Environmental Project Manager for the ANO 2 license  
20 renewal review.

21 Now before we get into a discussion of the  
22 license renewal process, I'd like to take a minute to  
23 talk about what the mission of the Nuclear Regulatory  
24 Commission is or what we call the NRC and discuss what  
25 it is that we do.

1           The NRC's mission is really threefold.  
2       First, it's to protect the health and safety of the  
3       public. Second is to protect the environment. And  
4       third, is to provide for the common defense and  
5       security. Now we accomplish our mission through a  
6       combination of regulatory programs and processes such  
7       as inspections, enforcement actions, assessments of  
8       licensee's performance and the evaluation of operating  
9       experience of nuclear plants throughout the United  
10      States.

11           Now the NRC's license renewal review is  
12      very similar to the original licensing process that we  
13      used when we licensed the plant some time ago and it  
14      involves two parts: a safety review and an  
15      environmental review.

16           I'm going to focus on what we considered  
17      during our safety review for the next couple of  
18      minutes.

19           There are two types of safety issues that  
20      we look at. Current operating issues which are dealt  
21      with now and then aging management issues that we deal  
22      with in our reviews of license renewal.

23           The NRC's regulatory oversight under the  
24      current operating license deals with the current  
25      safety issues and these are issues such as security or

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 emergency preparedness. And so we don't wait for the  
2 plant to come in for a license renewal request before  
3 we deal with those issues. We deal with them now in  
4 current time.

5 Because we're dealing with them now, we do  
6 not re-evaluate them in the license renewal review,  
7 rather, our safety review for license renewal focuses  
8 on the aging management issues and the programs that  
9 Entergy has in place to maintain its equipment.

10 Now when we complete the safety review for  
11 the license renewal, we will issue a safety evaluation  
12 report that is independently reviewed by a special  
13 Advisory Committee on Reactor Safeguards or what we  
14 call the ACRS.

15 Now that committee is a group of academic  
16 and industry experts that look at both the application  
17 that is submitted by Entergy and then they look at the  
18 results of our review that we publish in the SER and  
19 they provide the Nuclear Regulatory Commission with  
20 their own independent evaluation and recommendations,  
21 independent of the rest of the NRC staff.

22 Now although Stacey Imboden will discuss  
23 the environmental review in detail shortly, there's a  
24 couple of key points I wanted to mention at this point  
25 having to do with our environmental review. The

1 environmental review evaluates the impact of a number  
2 of different environmental areas including the  
3 ecology, hydrology, cultural resources and socio-  
4 economic issues. Now part of that environmental  
5 review includes what we call the scoping process  
6 during which we identify those environmental issues  
7 that we think are appropriate to be addressed for the  
8 ANO 2 plant.

9 During that scoping process, we ask the  
10 public to provide us with their input as to what they  
11 think we should be looking at in terms of the  
12 environmental review. Tonight's meeting is -- today's  
13 meeting is part of that scoping process and Stacey  
14 will discuss the process in more detail in a few  
15 minutes.

16 Next slide.

17 Now this next slide illustrates the entire  
18 license renewal process. As you can see, this slide  
19 shows both the parallel paths of both types of review  
20 I was just talking about. The upper path shows the  
21 safety review process which involves the NRC staff's  
22 review and assessment of the technical information  
23 that's contained in Entergy's license renewal  
24 application.

25 We have a team of about 30 people back at

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 the NRC headquarters in Washington, D.C. right now  
2 performing the safety evaluation review. They are  
3 focusing on the effectiveness of the proposed aging  
4 management programs that are contained in the  
5 application.

6 The NRC staff reviews these aging  
7 management programs to ensure that the plant can be  
8 maintained and operated safely for the license renewal  
9 term which is the additional 20 years that they've  
10 requested.

11 Now the results of the staff's safety  
12 review will be documented in the safety evaluation  
13 report. You can see and as I've mentioned earlier  
14 that will also be looked at by the ACRS in their  
15 review.

16 Now the safety process also involves  
17 audits and on-site inspections which are conducted by  
18 a team of inspectors pulled together from both the NRC  
19 headquarters as well as the regional offices. And the  
20 results of these inspections are issued in separate  
21 inspection reports.

22 Now the lower path shows how we perform  
23 the environmental review and as I mentioned earlier  
24 that involves the scoping activities which we are  
25 currently involved in. Once we conduct our review we

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 will issue a draft supplement to the generic  
2 environmental impact statement, or what we call the  
3 GEIS, which documents the results of our environmental  
4 review. We will issue that supplement, draft, for  
5 comment and we'll be back here in about a year to  
6 discuss the results of our review.

7 Eventually, we will issue a final version  
8 of that draft -- of the supplement report that will  
9 address the comments that we received during our  
10 review process.

11 So as you can see from the slide, the  
12 final agency decision on whether to approve or deny  
13 the application comes from a number of reviews that we  
14 conduct. The results can be found in the inspection  
15 reports. They can be found in our safety evaluation  
16 report which addresses the safety review and they can  
17 be found in the supplement to the generic  
18 environmental impact statement which addresses our  
19 environmental reviews, as well as the independent  
20 report from the ACRS. All of these various  
21 assessments are considered when the final Agency  
22 decision is made.

23 Now one point I'd like to make is that the  
24 splash marks shown on the slide indicate the  
25 opportunities for public participation. The first



1 opportunity during the environmental review occurs  
2 during the scoping process which this meeting is part  
3 of. During the scoping process, members of the public  
4 can provide us with their input as to what they think  
5 the scope of our review should include. Then the next  
6 opportunity during the environmental review is after  
7 we've issued the draft supplement to the GEIS and  
8 there will be another comment period for providing us  
9 with that input.

10 Separately, if there's a petition filed to  
11 intervene in this process by an individual or group,  
12 and if they have adequate standing, in other words, if  
13 their request for a hearing is granted by either the  
14 Atomic Safety Licensing Board or the NRC Commission  
15 itself, then a hearing may be granted. The hearing  
16 would be presided over by a panel of Administrative  
17 Law Judges and it would involve contentions, discovery  
18 and cross examinations, just like in a court trial.

19 However, nobody has requested a petition,  
20 has submitted a petition to intervene on the ANO 2  
21 proceedings. So there will not be a hearing.

22 And that ends my presentation on the  
23 overall review process. Next, let me turn the  
24 microphone over to Stacey Imboden who is working with  
25 me on this project and who will provide you with the

1 details of the environmental review process.

2 Stacey?

3 MS. IMBODEN: Good afternoon. I am Stacey  
4 Imboden and I'm a project manager on the NRC staff.  
5 Tom Kenyon and I are responsible for coordinating the  
6 activities of the NRC staff and experts at national  
7 labs to develop an environmental impact statement for  
8 the license renewal of Arkansas Nuclear One, Unit 2.

9 The National Environmental Policy Act of  
10 1969 requires -- I'm sorry, can I have the next slide?

11 The National Environmental Policy Act of  
12 1969 requires that federal agencies follow a  
13 systematic approach in evaluating potential  
14 environmental impacts associated with certain actions.  
15 We are required to consider the impact of the proposed  
16 action and also any mitigation for those impacts that  
17 we consider to be significant. We're also required to  
18 consider alternatives to the proposed action, in this  
19 case license renewal, and that includes the no-action  
20 alternative. In other words, if we decide not to  
21 renew the license at Arkansas Nuclear One, Unit 2,  
22 what will the environmental impacts be?

23 The National Environmental Policy Act and  
24 our environmental impact statement are disclosure  
25 tools. They are specifically structured to involve

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

(202) 234-4433

(202) 234-4433

1 public participation and this meeting is a part of  
2 facilitating the public's participation in our  
3 environmental review.

4 The Nuclear Regulatory Commission has  
5 determined that an environmental impact statement will  
6 be prepared for proposed license renewal of nuclear  
7 power plants. In preparing an EIS, the NRC conducts  
8 a scoping process. The purpose of the scoping process  
9 is to identify significant issues that are to be  
10 analyzed in depth. We are now gathering information  
11 for the EIS and are here to collect public comments on  
12 the scope of our review. What special issues should  
13 the NRC staff consider when developing the  
14 environmental impact statement for the renewal of  
15 Arkansas Nuclear One, Unit 2?

16 The staff developed a generic EIS that  
17 addressed a number of issues that are common to all  
18 power plants that come to us for license renewal. We  
19 are supplementing that generic EIS with a site  
20 specific EIS that will address environmental impacts  
21 specific to this individual site.

22 The staff also evaluates the conclusions  
23 reached in the generic EIS to determine if there is  
24 any new and significant information that would change  
25 any of those conclusions.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 Next slide.

2 This slide shows our decision standard for  
3 our environmental review and this is the legal  
4 language describing our decision standard. And what  
5 that basically means is that in the environmental  
6 impact statement we determine if license renewal is  
7 acceptable from an environmental standpoint.

8 Next slide, please.

9 This slide is just an expansion of the  
10 lower portion of a slide that Tom had up a few moments  
11 ago. It describes the environmental review process in  
12 greater detail. We received Entergy's application  
13 for the license renewal of Arkansas Nuclear One, Unit  
14 2, on October 15, 2003. On December 22, 2003, we  
15 issued a Federal Register Notice of Intent to prepare  
16 an environmental impact statement and conduct scoping  
17 process.

18 This started a 60-day clock defined as the  
19 scoping comment period and we are within the scoping  
20 comment period right now.

21 This meeting is a part of the scoping  
22 process so that we can get comments from the public to  
23 help us scope out the bounds of our environmental  
24 review. At the end of the scoping comment period  
25 which is February 20th, we will issue a scoping

1 summary report that will address all of the comments  
2 that we received from all sources during the review.

3 This week, members of the NRC staff and a  
4 team of experts from Pacific Northwest National Lab  
5 are conducting an environmental site audit to help  
6 gather information for the scoping process.

7 If in the conduct of our review, we  
8 require information beyond what was already provided  
9 to us in the initial application, we will issue a  
10 request for additional information. We expect to  
11 issue that request for additional information on March  
12 26, 2004.

13 Approximately eight weeks later, we expect  
14 to hear back from Entergy on those requests. At that  
15 time, based on all of the information that we have in  
16 hand, we will publish a draft of the environmental  
17 impact statement for public comment.

18 We envision publishing the draft of the  
19 environmental impact statement in September 2004 and  
20 at that time it will go out for a 75-day public  
21 comment period.

22 We plan to have another meeting here in  
23 Arkansas in October 2004 to receive public comments on  
24 the draft EIS. Once we get comments on the draft EIS,  
25 we will publish it in final form in April 2005.

1 Next slide.

2 This slide shows some of the sources where  
3 we gather information during our review. In addition  
4 to our site audit, we communicate with federal, state  
5 and local officials, as well as local service  
6 agencies. One example of our communications is later  
7 this week we have a meeting with the State Historic  
8 Preservation Officer in Little Rock, Arkansas. And we  
9 consider all of the comments that we receive from the  
10 public as well.

11 Next slide.

12 For this review, we've established a team  
13 made up of members of the NRC staff and experts from  
14 Pacific Northwest National Lab. And this slide gives  
15 you an idea of some of the areas that these experts  
16 evaluate. Some of these areas are terrestrial  
17 ecology, aquatic ecology, archeology and radiation  
18 protection.

19 Next slide, please.

20 This slide just recaps a couple of the key  
21 milestone dates in our schedule. As mentioned, we are  
22 currently in a scoping comment period which ends on  
23 February 20, 2004. All comments from this transcribed  
24 public meeting will be considered.

25 Tom mentioned the generic EIS, the generic

1 environmental impact statement for license renewal.  
2 That's an environmental impact statement that takes  
3 into account issues that affect all power plants that  
4 come to us for license renewal. We will be publishing  
5 an Arkansas Nuclear One, Unit 2, site-specific  
6 supplement to the generic EIS called a SEIS. That  
7 supplement will be issued in draft form in September  
8 with a 75-day public comment period. After  
9 considering your comments on the draft, we will  
10 publish it in final form in April 2005.

11 Next slide.

12 This slide identifies Tom Kenyon and I as  
13 your primary points of contact on the NRC staff for  
14 the preparation of the environmental impact statement.  
15 It also identifies where documents related to the  
16 review can be found in the local area. The Ross  
17 Pendergraft Library at Arkansas Tech University has  
18 agreed to make the license renewal application  
19 available, along with all correspondence from NRC to  
20 Entergy and other agencies regarding the environmental  
21 review.

22 The draft environmental impact statement  
23 will also be available at the library when it is  
24 published later this year.

25 And these documents are also available on

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 NRC's website and that web address is [www.nrc.gov](http://www.nrc.gov).

2 In addition, as you came in, you were  
3 asked to fill out a registration card at our reception  
4 desk and if you have provided your address on that  
5 card, we will mail you a copy of the draft and final  
6 environmental impact statements.

7 Next slide.

8 In addition to providing comments at this  
9 meeting, there are other ways that you can submit  
10 comments on our environmental review process. You can  
11 provide written comments to the Chief of our Rules and  
12 Directives Branch and that will ensure that your  
13 comments get into our public record. You can make  
14 comments in person if you happen to be in Rockville,  
15 Maryland.

16 We've established a specific e-mail  
17 address at the NRC for the purpose of receiving your  
18 comments on the draft environmental impact statement  
19 and what you think the scope of our review should be.  
20 That e-mail address is [anoeis@nrc.gov](mailto:anoeis@nrc.gov). All of your  
21 comments will be collected and considered.

22 This concludes my remarks. And now Tom  
23 Kenyon and I are available to answer any questions.

24 MR. CAMERON: Thank you, thank you very  
25 much, Stacey and Tom. And we do have a question right



1 now here. And if you could just give us your name,  
2 sir?

3 MR. LEONARD: My name is Bob Leonard. I'm  
4 with the Arkansas Game and Fish Commission. I was  
5 just curious. Will you send us all a copy of the  
6 notes and comments that you receive at these meetings  
7 to the people you have there on your list?

8 MS. IMBODEN: If you have provided your  
9 address on the card at the reception desk, all of the  
10 comments will be in the scoping summary report and the  
11 draft environmental impact statement. And you will  
12 receive copies of those if you have provided your  
13 address.

14 MR. LEONARD: You've already been sending  
15 correspondence to me, so I assume you've got it.

16 MS. IMBODEN: Okay.

17 MR. CAMERON: Okay, and we are going to  
18 have a transcript from this meeting also so that if  
19 you want to have a look at the straight transcript, in  
20 addition to our summary, we can send you a copy of  
21 that too.

22 All right. Great. Other questions for  
23 Stacey or Tom?

24 Any information we could provide you that  
25 would help you with any written comments that you

1 might want to file?

2 Okay, let's go and give us your name  
3 again?

4 MR. LEONARD: Bob Leonard again, Game and  
5 Fish. You're going to have some transmission lines  
6 associated with this, correct?

7 MS. IMBODEN: Yes.

8 MR. LEONARD: Will you be providing some  
9 maps here today for the routing of those transmission  
10 lines?

11 MR. CAMERON: We're going to go out in the  
12 audience here and try to get some information on that.  
13 Anything from the NRC before we go out here?

14 MR. KENYON: You're talking about --  
15 you're here for a specific review? Go ahead.

16 MR. CAMERON: Let's get you on the  
17 transcript here.

18 MR. BUCKLEY: Rick Buckley, Entergy, and  
19 you can find a copy of the map in the ANO 2 ER. There  
20 will be a map showing that.

21 MR. CAMERON: And the ER is environmental  
22 review. Okay. Report. Environmental Report. All  
23 right.

24 Does that give you everything you need to  
25 know? All right. Terrific.

1 Other questions? I'm going to stay right  
2 here.

3 (Laughter.)

4 Seriously, do you have anything else?  
5 Anybody else have information? Because if you're  
6 interested in looking at the report and everything,  
7 even if you're not going to file comments, if there's  
8 any information that we can offer to help you with  
9 that, this is the -- this is not the only time to ask  
10 a question because I think Stacey, you gave us your  
11 contact information.

12 MS. IMBODEN: Yes. And Tom's.

13 MR. CAMERON: So if you do have comments  
14 or questions in the future call Stacey, but is there  
15 anybody else who has a question at this point?

16 Okay. Thank you, Stacey. Thank you, Tom.  
17 Thanks, John, for injecting that humor about the Super  
18 Bowl.

19 (Laughter.)

20 This is the second part of the meeting  
21 where we usually, where we always ask people to give  
22 us their advice, recommendations. We didn't have  
23 anybody sign up in advance to give us any formal  
24 comments, but we would like anybody who wants to talk  
25 now to be able to do that.

1 Does anybody have anything to tell us  
2 about what types of issues we should be looking at?  
3 Are there any transmission line issues that you think  
4 that we should be specifically concerned about?

5 MR. LEONARD: That would be site specific,  
6 depending on how you go with the transmission lines.  
7 Aren't they currently in use right now?

8 MR. CAMERON: Transmission lines and we're  
9 getting -- I'll put this on the record, the  
10 transmission lines currently are in use right now.  
11 Okay.

12 Anything else like that that would be --  
13 that we should know about?

14 Okay, we're going to be here tonight, 6  
15 o'clock open house; 7 o'clock public meeting to do  
16 this again and we certainly welcome all of you to come  
17 back and join us.

18 John, I always ask John, as our leader to  
19 close out the meeting for us. John, do you want to do  
20 that?

21 MR. TAPPERT: Sure. Thanks again for  
22 coming out. We'll be back again tonight and if you  
23 have any written comments, we'll be accepting them  
24 until February 20th. So I appreciate your time and  
25 that's it.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 MR. CAMERON: We're adjourned. Thank you.

2 (Whereupon, at 2:02 p.m., the public  
3 meeting was concluded.)

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

**ENCLOSURE 3**

**TRANSCRIPTS: ARKANSAS NUCLEAR ONE, UNIT 2  
LICENSE RENEWAL PUBLIC MEETING (EVENING)**

---

**Official Transcript of Proceedings**

**NUCLEAR REGULATORY COMMISSION**

**Title:** Arkansas Nuclear One, Unit 2  
License Renewal Public Meeting

**Docket Number:** 50-368

**Location:** Russellville, Arkansas

**Date:** Tuesday, February 3, 2004

**Work Order No.:** NRC-1279

**Pages 1-22**

**NEAL R. GROSS AND CO., INC.**  
**Court Reporters and Transcribers**  
**1323 Rhode Island Avenue, N.W.**  
**Washington, D.C. 20005**  
**(202) 234-4433**

1 UNITED STATES OF AMERICA

2 U.S. NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 PUBLIC MEETING TO DISCUSS ENVIRONMENTAL SCOPING

5 PROCESS FOR ARKANSAS NUCLEAR ONE, UNIT 2

6 LICENSE RENEWAL APPLICATION

7 + + + + +

8 TUESDAY,

9 FEBRUARY 3, 2004

10 + + + + +

11 RUSSELLVILLE, ARKANSAS

12 + + + + +

13 The Public Meeting convened in the Holiday

14 Inn at 2407 North Arkansas Avenue, Russellville,

15 Arkansas 72801 at 7:00 p.m.

16 Present on behalf of the Nuclear Regulatory

17 Commission:

18 CHIP CAMERON

19 JOHN TAPPERT

20 THOMAS KENYON

21 STACEY IMBODEN

22  
23  
24  
25  
**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701



## I N D E X

Welcome and Introductions, Chip Cameron . . . . .	3
Welcome and Purpose of the Meeting, John Tappert	6
Overview of License Renewal Process,	
Thomas Kenyon . . . . .	8
Overview of Environmental Review Process,	
Stacey Imboden . . . . .	14
Closing Comments, Chip Cameron . . . . .	21
Adjourn . . . . .	22

## NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

P-R-O-C-E-E-D-I-N-G-S

7:00 p.m.

MR. CAMERON: My name is Chip Cameron and I want to welcome you to the NRC's (Nuclear Regulatory Commission's) Public Meeting tonight.

I'm going to be your facilitator for the meeting and my responsibility will be to try to ensure that we have a constructive meeting tonight.

The meeting is on the NRC's environmental review; one part of the NRC's evaluation of the request that we had from the Entergy Company to renew the operating license for Arkansas Nuclear (ANO) Unit 2.

And in terms of format we're going to have basically a two-part format for the meeting and they match the objectives for the meeting. The first part we're going to try to give you some information, clear information about the NRC's license renewal process and specifically the environmental review part of that process and to answer any questions that you might have.

The second part of the meeting is an opportunity for us to hear from any of you who want to give us comments, recommendations, advice, concerns on items that we should look at in doing the -- preparing

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

(202) 234-4433

(202) 234-4433

1 the draft environmental impact statement.

2 We are going to take written comments on  
3 these issues, but anything you say to us tonight will  
4 carry the same weight as the written comments. And we  
5 are transcribing the meeting. Peggy Brown is our  
6 transcriptionist and that will be our record of the  
7 meeting. If anybody needs a copy of that, we'll be  
8 glad to provide it.

9 And the ground rules are very simple.  
10 During our discussion, after the presentations, if you  
11 have a comment or question, just signal me and I'll  
12 bring you this cordless microphone. Give us your name  
13 and affiliation, if appropriate, and we'll try to  
14 answer your questions.

15 Usually, when we have the formal comment  
16 part of the meeting we set a five to seven minute  
17 guideline, but I don't think we have to worry about  
18 being pressed for time tonight.

19 And with that, just let me introduce the  
20 NRC speakers. First of all, we're going to have a  
21 welcome from Mr. John Tappert who is right here. And  
22 John is the Chief of the Environmental Section in our  
23 Office of Nuclear Reactor Regulation back in  
24 Rockville, Maryland at NRC Headquarters and John and  
25 his staff oversee the preparation of any environmental

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 reviews on reactor licensing issues, including license  
2 renewal applications like this one.

3 John has been with the Agency for 13  
4 years. He has been one of our resident inspectors and  
5 before that he was with the Nuclear Navy, our Nuclear  
6 Navy, I guess I should emphasize.

7 (Laughter.)

8 And he has a Bachelor's degree in  
9 Aeronautic and Ocean Engineering from Virginia Tech  
10 and a Master's degree in Environmental Engineering  
11 from Johns Hopkins University.

12 After John gives us a brief welcome and  
13 some information on license renewal, we're going to go  
14 to Mr. Tom Kenyon who is on John's staff and he's a  
15 project manager on this license renewal application.  
16 He's been with the NRC for 23 years and has been  
17 involved in advance design certification. He's served  
18 as a project manager for various operating reactors,  
19 has a wealth of experience and Tom has a degree from  
20 the University of Michigan, a Bachelor's degree in  
21 Nuclear Engineering. And he's going to talk about the  
22 license renewal process overall.

23 And then we're going to get to the  
24 specifics of the environmental review process and we  
25 have Stacey Imboden who is right here. She's also on

1 John's staff. She's a Project Manager on this license  
2 renewal application and she's been with us just a  
3 couple of years, about two and a half, exactly.  
4 Stacey comes to us with a Master's degree in  
5 Environmental Engineering from Clemson University and  
6 her Bachelor's is in Meteorology. I'm sure I  
7 pronounced that right, but the weather, from Penn  
8 State.

9 And with that, John?

10 MR. TAPPERT: Thank you, Chip, and good  
11 evening and welcome. Welcome back to those returning  
12 from this afternoon's meeting.

13 As Chip said, my name is John Tappert and  
14 on behalf of the Nuclear Regulatory Commission, I'd  
15 like to thank you for coming out and taking time out  
16 of your evening and participating in this process.

17 I hope that the information that we will  
18 share with you this evening will be helpful and we  
19 look forward to receiving your comments, both tonight  
20 and in the future.

21 Now we want to start by briefly going over  
22 the purposes and agenda of tonight's meeting. First  
23 of all, we'd like to give you a brief overview of the  
24 entire license renewal process. This includes both  
25 the safety review as well as an environmental review

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 which will be the principal focus of tonight's  
2 meeting. Then we'll give you some additional  
3 information about how we will conduct that  
4 environmental review which will assess the impacts  
5 associated with extending the operating license for  
6 Arkansas Nuclear One Unit 2 for an additional 20  
7 years.

8 Then we'll give you some information about  
9 the balance of our review schedule and how you can  
10 submit comments in the future and then we get to the  
11 major part of today's meeting which is to receive any  
12 comments that you may have tonight.

13 First, let me provide some background for  
14 the license renewal process itself. The Atomic Energy  
15 Act gives the NRC the authority to issue operating  
16 licenses to commercial nuclear power plants for a  
17 period of 40 years. For Arkansas Nuclear One, Unit 2,  
18 that operating license will expire in 2018. Our  
19 regulations also make provisions for extending that  
20 operating license as part of our license renewal  
21 program. And Entergy has requested license renewal  
22 for the Unit 2.

23 Now you notice I've been talking about  
24 Unit 2 and those familiar with the Arkansas Nuclear  
25 One Station know that there's two reactors there. And

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 the reason for that is that previously Entergy has  
2 requested license renewal and received an extension on  
3 that operating license until 2034.

4 So for Unit 2 we will now develop an  
5 environmental impact statement assessing the impacts  
6 of extending the operation of the plant. Right now  
7 we're early in that process in what we call scoping  
8 where we seek to identify those issues which will  
9 require the greatest focus in our environmental impact  
10 statement.

11 Now after we complete the scoping process  
12 and do our review, we will develop a draft  
13 environmental impact statement and return to the  
14 community later this year to present our findings.

15 So with that brief introduction, I'd just  
16 like to reiterate the purpose of today's meeting is to  
17 receive any comments that you have tonight and I'd  
18 like to ask Tom to give us some more details on the  
19 safety review.

20 Tom?

21 MR. KENYON: Thank you, John. As John  
22 mentioned my name is Tom Kenyon and I'm the  
23 Environmental Project Manager for the ANO 2 license  
24 renewal application.

25 Now before we get into a discussion of the

1 license renewal process, I'd like to take a few  
2 minutes to talk about the Nuclear Regulatory's mission  
3 and what it is that we do.

4 The NRC's mission is really threefold. It  
5 is to ensure the adequate protection of the health and  
6 safety of the public. It is to provide, protect the  
7 environment and to provide for the common defense and  
8 security. The NRC accomplishes this mission in a  
9 number of different ways and through programs and  
10 processes such as inspections, enforcement actions,  
11 assessment of licensee performance and the evaluation  
12 of operating experience of the various nuclear plants  
13 throughout the United States.

14 Now the NRC's license renewal process is  
15 very similar to the original licensing process that  
16 was used to license ANO 2 and it involves two parts,  
17 a safety review and an environmental review. And I'm  
18 going to focus on what we considered during our safety  
19 review for the next couple of minutes.

20 There are two types of safety issues that  
21 we look at. There are current operating issues which  
22 are dealt with now and then there are the aging  
23 management issues that we deal with as part of our  
24 license renewal review. Now the NRC's regulatory  
25 oversight under the current operating license deals

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701



1 with the current safety issues and these are issues  
2 such as emergency planning or security. And we're  
3 dealing with those issues now, rather than waiting  
4 until an applicant comes in and requests a renewed  
5 license.

6 Because the NRC is dealing with those  
7 issues, we do not re-evaluate them as part of our  
8 license renewal review. Rather, our safety review for  
9 license renewal focuses on aging management issues and  
10 the programs that Entergy has in place to maintain its  
11 equipment.

12 When we complete the safety review for  
13 license renewal, we will issue a safety evaluation  
14 report that is independently reviewed by a special  
15 Advisory Committee on Reactor Safeguards or what we  
16 call the ACRS.

17 Now that committee is a group of academic  
18 and industry experts that look at both the application  
19 that is submitted by Entergy and then they look at the  
20 results of our review that's in the SER and they  
21 provide the Nuclear Regulatory Commission with their  
22 findings and recommendations independent of the NRC  
23 staff.

24 Now although Stacey Imboden will discuss  
25 the environmental review in detail shortly, I just

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 want to talk about a couple of key points regarding  
2 how we do the environmental review. When we perform  
3 our environmental review, we look at a number of  
4 different areas such as the ecology, the hydrology,  
5 cultural resources and socio-economic issues. Now  
6 part of that environmental review includes what we  
7 call the scoping process during which we identify  
8 those environmental issues that should be included in  
9 the scope of our review at this point. And as John  
10 mentioned, this meeting is part of the scoping process  
11 and Stacey will discuss this process in more detail in  
12 a few minutes.

13 Now this next slide will illustrate the  
14 entire license renewal process. As you can see, this  
15 slide shows the two parallel paths that I mentioned.  
16 The upper path shows the safety review process which  
17 involves the NRC staff's review and assessment of the  
18 technical information that's contained in Entergy's  
19 application.

20 We have a team of about 30 NRC technical  
21 reviewers back at our headquarters in Washington, D.C.  
22 that are conducting the safety review right now. They  
23 are focusing on the effectiveness of the proposed  
24 aging management programs that are contained in the  
25 application.

1           The NRC staff reviews these aging  
2 management programs to ensure that the plant can be  
3 maintained and operated safely throughout the license  
4 renewal term which is really just the additional 20  
5 years of operation that they've requested.

6           Now the results of the staff's safety  
7 review will be documented in the safety evaluation  
8 report. You can see that there and as you can see  
9 that report is provided to the ACRS for their review  
10 and comment.

11           Now the safety process also involves  
12 audits and on-site inspections and these inspections  
13 are conducted by a team of inspectors that are pulled  
14 together from both the NRC headquarters as well as the  
15 regional offices and the results of their inspections  
16 are documented in separate inspection reports.

17           Now the lower path shows how we perform  
18 the environmental review and as I mentioned earlier it  
19 involves the scoping activities which we are  
20 conducting right now. We will then develop a draft  
21 supplement to the generic environmental impact  
22 statement, or GEIS, which documents the results of our  
23 review. And eventually, we will issue the draft  
24 report for comment and we will issue a final version  
25 of the supplement to the GEIS once we've addressed all

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 the comments that we've received.

2 So as you can see from the slide, the  
3 final agency decision on whether to approve or deny  
4 the application will factor in the results of a number  
5 of different reviews. The results can be found in the  
6 inspection reports, in the safety evaluation report  
7 which addresses the safety review and the final  
8 supplement to the GEIS which addresses our  
9 environmental review as well as in the independent  
10 report from the ACRS. All of these various  
11 assessments are considered when the final Agency  
12 decision is made.

13 Now one point I'd like to make is that the  
14 splash marks shown on the slide indicate the  
15 opportunities for public participation. The first  
16 opportunity during the environmental review is during  
17 the scoping process as we've discussed in which this  
18 meeting is part of. Now during the scoping process,  
19 members of the public can provide us with their  
20 insights either during this meeting or in writing up  
21 until February 20th. The next opportunity during the  
22 environmental review is when we request comments on  
23 the draft supplemental report.

24 Now separately, if there's a petition  
25 filed to intervene in this process by an individual or

1 group, and if they have adequate standing, in other  
2 words, if their request to intervene is granted by  
3 either the Atomic Safety Licensing Board or by the  
4 Nuclear Regulatory Commission itself, then a hearing  
5 may also be involved in this process. The hearing  
6 would be presided over by a panel of Administrative  
7 Law Judges and it involves contentions, discovery and  
8 cross examinations, just like in a court trial.

9 However, there were no petitions to intervene on  
10 the ANO 2 proceedings.

11 And that ends my presentation on the  
12 overall review process. Let me turn the microphone  
13 over to Stacey Imboden who is working with me on this  
14 review and who will talk about the details of the  
15 environmental review process.

16 MS. IMBODEN: Thank you, Tom. I am Stacey  
17 Imboden and I'm a project manager with the NRC.

18 Can I have Slide 6? Tom Kenyon and I are  
19 responsible for coordinating the activities of the NRC  
20 staff and experts in various fields from national labs  
21 to develop an environmental impact statement for the  
22 license renewal of Arkansas Nuclear One, Unit 2.

23 The National Environmental Policy Act of  
24 1969 requires that federal agencies follow a  
25 systematic approach in evaluating potential

1 environmental impacts associated with certain actions.  
2 We are required to consider the impact of the proposed  
3 action and also any mitigation for those impacts that  
4 we consider to be significant. We're also required to  
5 consider alternatives to the proposed action, in this  
6 case license renewal, and that includes the no-action  
7 alternative. In other words, if we decide not to  
8 renew the license at Arkansas Nuclear One, Unit 2,  
9 what will the environmental impacts be?

10 The National Environmental Policy Act and  
11 our environmental impact statement are disclosure  
12 tools. They are specifically structured to involve  
13 public participation and this meeting is a part of  
14 facilitating the public's participation in our  
15 environmental review.

16 The Nuclear Regulatory Commission has  
17 determined that an environmental impact statement will  
18 be prepared for proposed license renewal of nuclear  
19 power plants. In preparing an EIS, the NRC conducts  
20 a scoping process. The purpose of the scoping process  
21 is to identify the significant issues to be analyzed  
22 in depth. We are now gathering information for the  
23 EIS and are here to collect public comments on the  
24 scope of our review. What special issues should the  
25 NRC staff consider when developing the environmental

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

(202) 234-4433

(202) 234-4433

1 impact statement for Arkansas Nuclear One, Unit 2?

2 The staff developed a generic EIS that  
3 addressed a number of issues that are common to all  
4 power plants that come to us for license renewal. The  
5 staff is supplementing that generic EIS with an  
6 Arkansas Nuclear One, Unit 2 site-specific EIS that  
7 will address environmental impacts specific to this  
8 individual site.

9 The staff also evaluates the conclusions  
10 reached in the generic EIS to determine if there is  
11 any new and significant information that would change  
12 any of those conclusions.

13 Next slide.

14 This slide shows the decision standard for  
15 our environmental review and this is just the legal  
16 language for our decision standard. And what it's  
17 basically saying is that in the environmental impact  
18 statement we determine if license renewal is  
19 acceptable from an environmental standpoint.

20 Next slide.

21 This slide is just an expansion of the  
22 lower portion of a slide that Tom had up a few moments  
23 ago. It shows the environmental review process in  
24 greater detail. We received Entergy's application  
25 for the license renewal of Arkansas Nuclear One, Unit

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

(202) 234-4433

1 2, on October 15, 2003. On December 22, 2003, we  
2 issued a Federal Register Notice of Intent to prepare  
3 an environmental impact statement and conduct scoping  
4 process.

5 This started a 60-day clock defined as the  
6 scoping period and we are within the scoping period  
7 right now.

8 This meeting is a part of the scoping  
9 process so that we can get comments from the public to  
10 help us scope out the bounds of our environmental  
11 review. At the end of the scoping period which is  
12 February 20, 2004, we will issue a scoping summary  
13 report that will address all of the comments that we  
14 receive from all sources during the scoping process.

15 This week, members of the NRC staff and  
16 experts from Pacific Northwest National Lab are  
17 conducting an environmental site audit to help gather  
18 information for the scoping process.

19 If during the conduct of the review, we  
20 determine that we need additional information beyond  
21 what was already provided to us in the initial  
22 application, we will issue a request for additional  
23 information and we expect to issue that request on  
24 March 26, 2004.

25 Approximately eight weeks later, we expect



1 to hear back from Entergy on those requests. At that  
2 time, based on all of the information that we have in  
3 hand, we will publish a draft of the environmental  
4 impact statement for public comment.

5 We envision publishing the draft of the  
6 environmental impact statement in September 2004 and  
7 at that time it will go out for a 75-day public  
8 comment period.

9 We plan to have another meeting here in  
10 Arkansas in October to receive your comments on the  
11 draft environmental impact statement. Once we get  
12 comments on the draft environmental impact statement,  
13 we will publish it in final form in April 2005.

14 Next slide.

15 This slide shows some of the sources where  
16 we gather information during our review. In addition  
17 to our site audit, we communicate with federal, state,  
18 and local officials, as well as local service  
19 agencies. One example of our communications is later  
20 this week we have a meeting with the State Historic  
21 Preservation Officer in Little Rock, Arkansas. And we  
22 consider all of the comments that we receive from the  
23 public as well.

24 Next slide.

25 For this review, we've established a team

1 made up of NRC staff supplemented by experts in  
2 various fields from Pacific Northwest National Lab.  
3 And this slide gives you an idea of some of the areas  
4 that these experts evaluate. Some of these areas are  
5 terrestrial ecology, aquatic ecology, archeology and  
6 radiation protection.

7 Next slide.

8 This slide just recaps a couple of the key  
9 milestones in our schedule. As mentioned, we are  
10 currently in a scoping comment period which ends on  
11 February 20, 2004. All comments from this transcribed  
12 public meeting will be considered.

13 Tom mentioned the GEIS, the generic  
14 environmental impact statement for license renewal.  
15 That's an environmental impact statement that  
16 addresses issues that are common to all power plants  
17 that come to us for license renewal. We will be  
18 publishing an Arkansas Nuclear One, Unit 2 specific  
19 supplement to the GEIS called a SEIS. That supplement  
20 will be issued in draft form in September with a 75-  
21 day public comment period. After considering your  
22 comments on the draft, we will publish it in final  
23 form in April 2005.

24 Next slide.

25 This slide identifies Tom Kenyon and I as

1 your primary points of contact on the NRC staff for  
2 the environmental review. It also identifies where  
3 documents related to the review can be found in the  
4 local area. The Ross Pendergraft Library at Arkansas  
5 Tech University has agreed to make the license renewal  
6 application available, as well as any correspondence  
7 sent by NRC to Entergy or other agencies regarding the  
8 Arkansas Nuclear One, Unit 2 review.

9 The draft environmental impact statement  
10 will also be available at the library when it is  
11 published later this year.

12 And these documents are also available on  
13 NRC's website and that web address [www.nrc.gov](http://www.nrc.gov).

14 In addition, as you came in, you were  
15 asked to fill out a registration card at the reception  
16 desk and if you have provided your address on that  
17 card, we will mail you a copy of the draft and final  
18 environmental impact statements.

19 Next slide.

20 In addition to providing comments at this  
21 meeting, there are other ways that you can submit  
22 comments on our environmental review process. You can  
23 provide written comments to the Chief of our Rules and  
24 Directives Branch and that will ensure that your  
25 comments get into our public record. You can also

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 make comments in person if you happen to be in  
2 Rockville, Maryland.

3 We've established a specific e-mail  
4 address at the NRC for the purpose of receiving your  
5 comments on the draft environmental impact statement  
6 and what you think the scope of our review should be.  
7 That e-mail address is anoeis@nrc.gov. All of your  
8 comments will be collected and considered.

9 This concludes my remarks. And now Tom  
10 Kenyon and I are available to answer any questions.

11 MR. CAMERON: Great. Thank you, Stacey  
12 and thanks, Tom.

13 Can we answer any questions for any of you  
14 about this process or how you participate in it, what  
15 we're going to be looking at, when we prepare the  
16 environmental review?

17 Any questions at all at this point?

18 (No response.)

19 This is the time of the meeting where we  
20 look to you for formal comment and usually we have  
21 people signed up to give us some comments. We don't  
22 have anybody who has signed up. That doesn't mean  
23 that anybody who wants to give us any type of formal  
24 comment now on what we should look at in the scope of  
25 the environmental review can't say anything. Anybody

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

1 want to say anything at this point?

2 (No response.)

3 Okay, the NRC staff and some of our  
4 experts from the national lab, we have them with us  
5 tonight. They're available to talk to you after the  
6 meeting about various subjects. So I think that  
7 that's probably the end of the meeting.

8 And John, do you want to say anything  
9 before we close at this point? Okay, well, thank you  
10 all for being here and we're adjourned.

11 (Whereupon, at 7:24 p.m., the meeting was  
12 concluded.)

13

14

15

16

17

18

19

20

21

22

23

24

25

**ENCLOSURE 4**

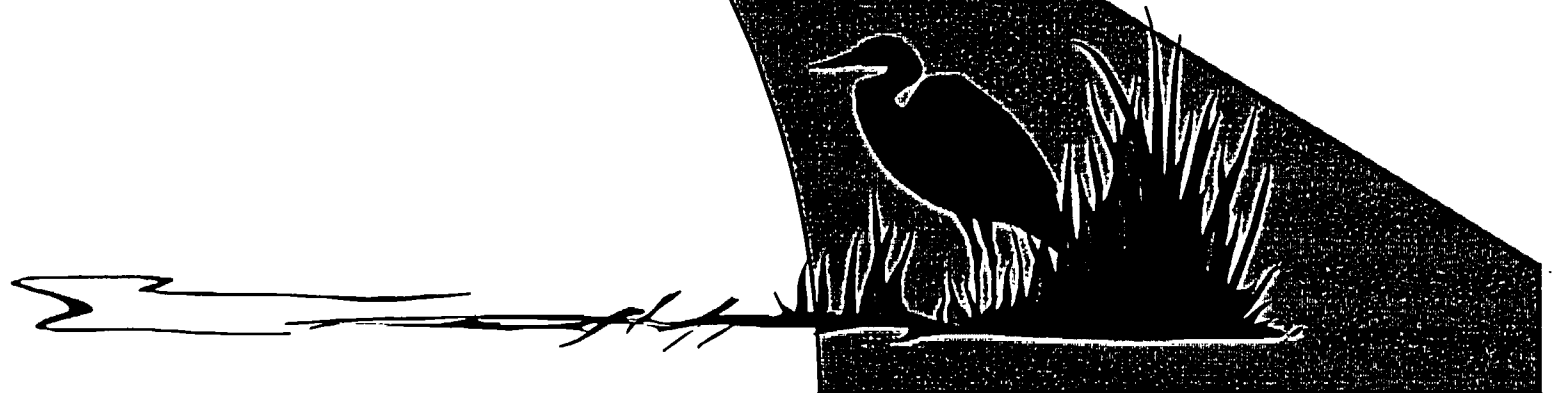
**SLIDES: ENVIRONMENTAL SCOPING MEETING  
ARKANSAS NUCLEAR ONE, UNIT 2**



# Environmental Scoping Meeting Arkansas Nuclear One, Unit 2

---

Nuclear Regulatory Commission  
February 3, 2004





# Purpose of Today's Meeting

---

- Discuss NRC's license renewal process
- Describe the environmental review process
- Identify environmental areas that the staff typically evaluates
- Provide the review schedule
- Accept any comments you may have today
- Describe how to submit comments





# Arkansas Nuclear One, Unit 2 License Renewal

---

- Current operating license expires 7/17/2018
- Application requests authorization to operate Unit 2 for an additional 20 years



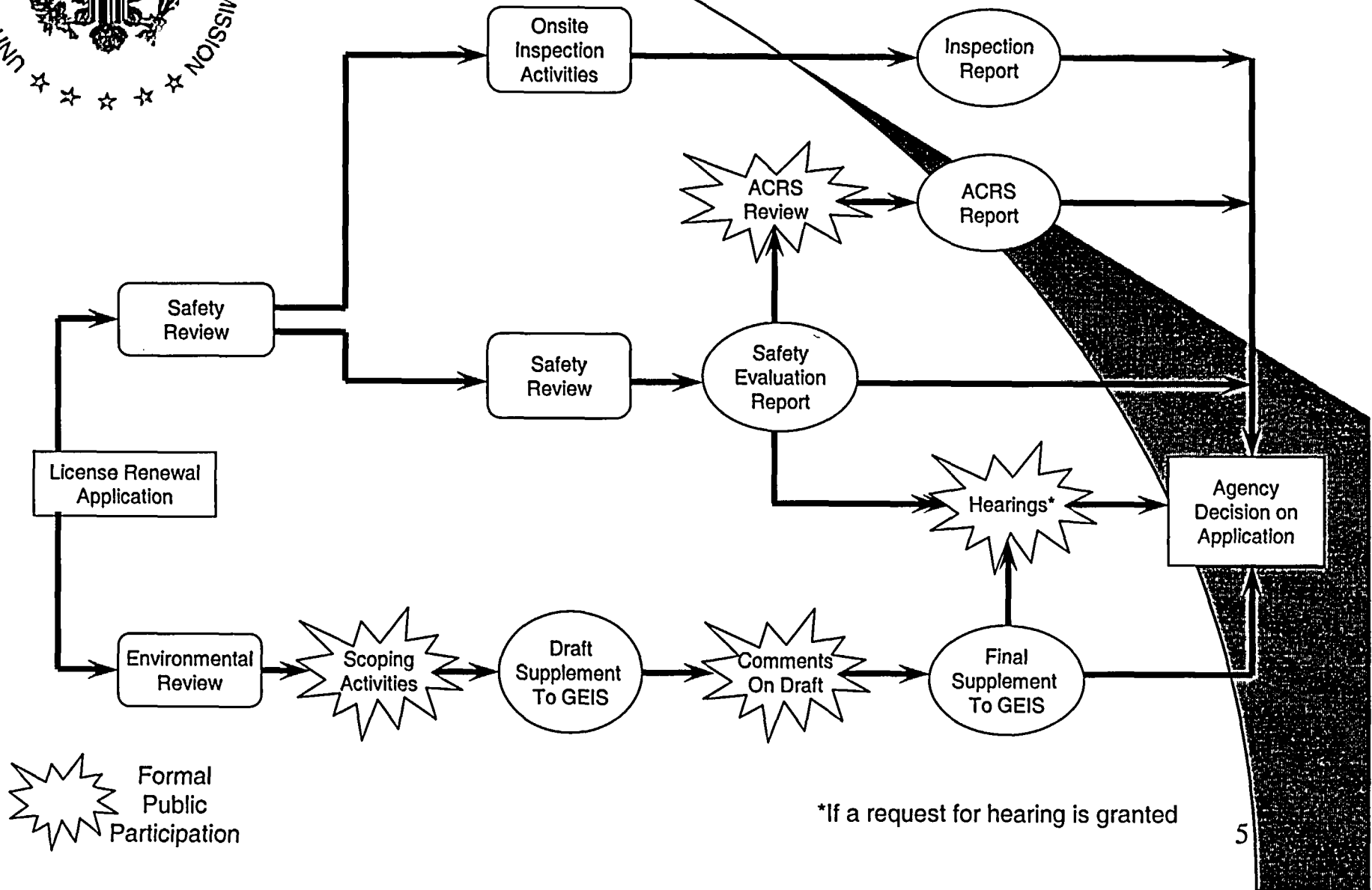
# NRC's License Renewal Review

---

- Safety review
- Environmental review
- Plant inspections
- Advisory Committee on Reactor Safeguards (ACRS)



# License Renewal Process





# National Environmental Policy Act

---

- NEPA requires Federal agencies to use a systematic approach to consider environmental impacts
- An Environmental Impact Statement (EIS) is required for major Federal actions significantly affecting the quality of the human environment
- Commission has determined that a supplement to the "Generic EIS for License Renewal of Nuclear Plants" will be prepared for a license renewal application.



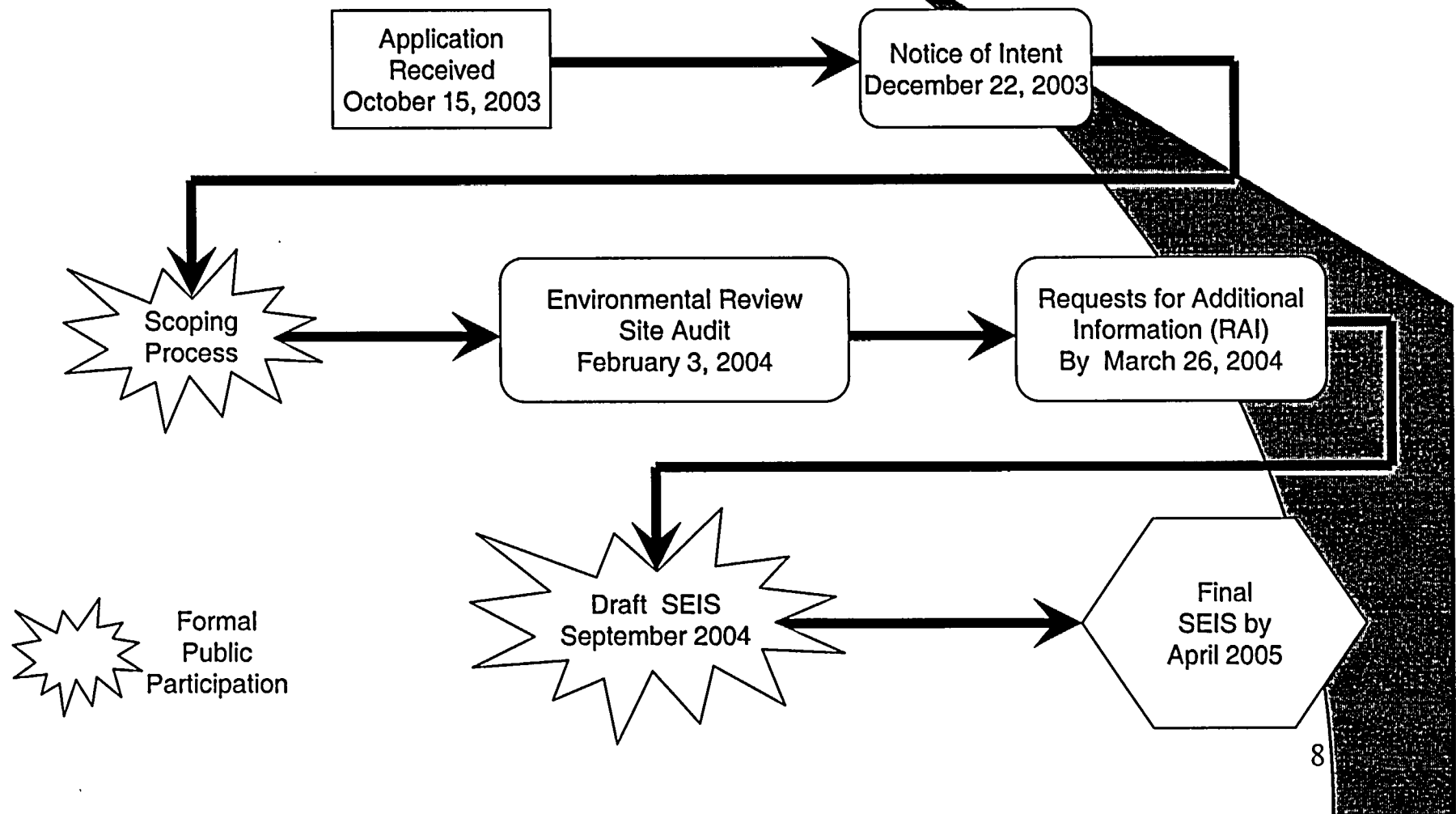
# Decision Standard for Environmental Review

---

To determine whether or not the adverse environmental impacts of license renewal for Arkansas Nuclear One, Unit 2 are so great that preserving the option of license renewal for energy planning decisionmakers would be unreasonable.

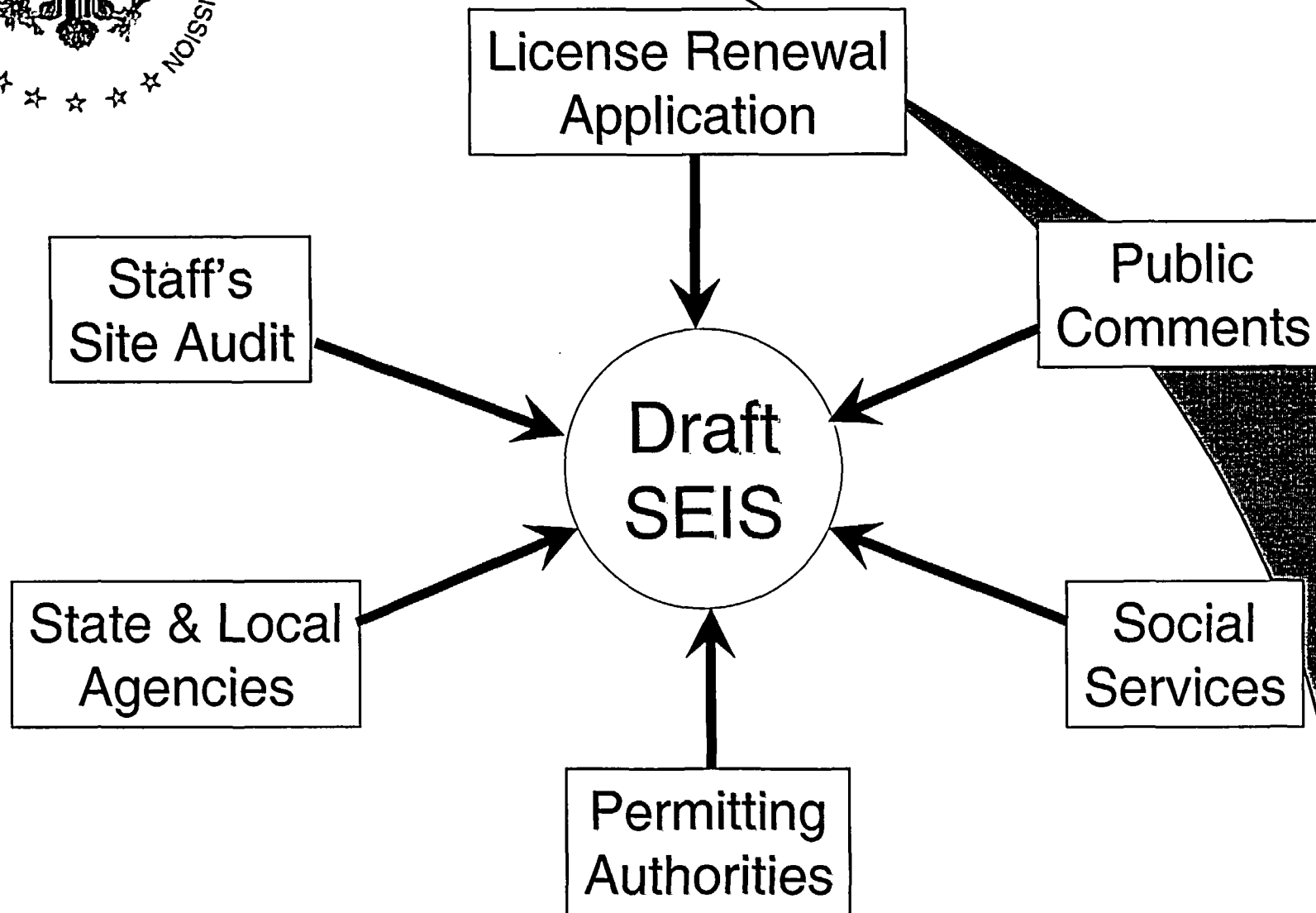


# Environmental Review Process for License Renewal



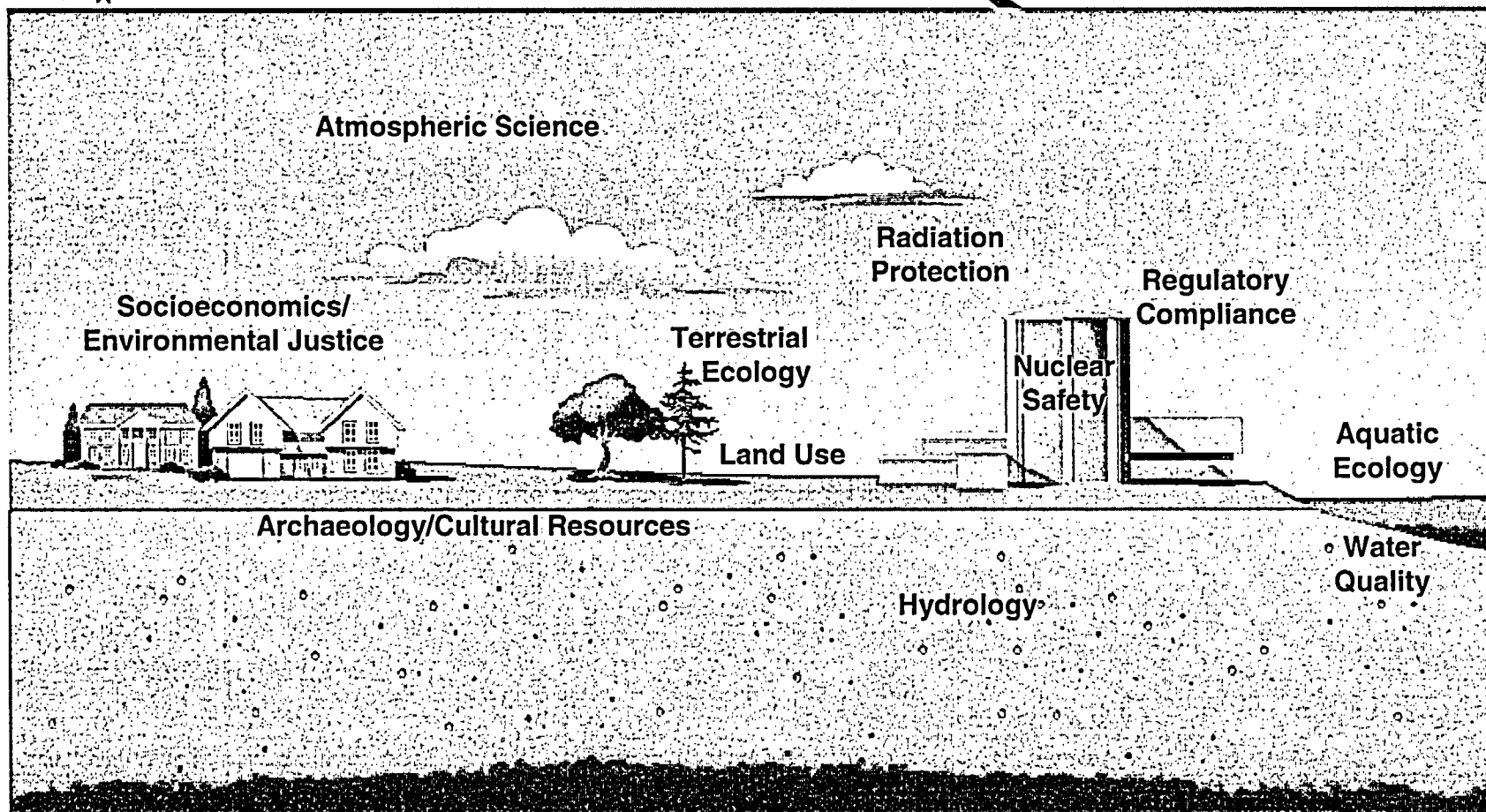


# Information Gathering





# Team Expertise







# Environmental Review Milestones

---

- Scoping & Comment period –12/22/03 to 2/20/04
- Issue draft SEIS – September 2004
- Issue final SEIS – April 2005



# Point of Contact

---

- Agency points of contact:  
Thomas Kenyon  
Stacey Imboden  
(800) 368-5642
- Documents are located at the Ross Pendergraft Library  
at Arkansas Tech University
- Documents can also be viewed at the NRC's Web site  
([www.nrc.gov](http://www.nrc.gov))



# NRC Addresses

---

Provide written comments:

- By mail at: Chief, Rules and Directives Branch  
Division of Administrative Services  
Mailstop T-6D59  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555
- In person at: 11545 Rockville Pike  
Rockville, Maryland
- E-mail at: [ANOEIS@nrc.gov](mailto:ANOEIS@nrc.gov)

